

ABSTRACT OF THE DISCLOSURE

A fluid moving system that includes a multiplicity of electrode elements mounted in spaced relationships to one another adjacent along a surface. The electrode elements produce charged particles by a corona-type discharge. The electrode elements are also used for delivering progressively changing electric potentials along the smooth surface in order to create an electric potential field for propelling charged particles from one electrode element toward the next and thereby inducing a surface layer fluid flow over the surface. A switching mechanism for reversing the direction of the corona discharge and the direction of the moving charged particles is also incorporated into the system in order to reinforce and accelerate the flow.